BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Maintenance of Community Property in Ward No. 11 (Kuvempunagara) in Vidyaranyapura Sub Division.**

Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							Estimate Cost:		**500000.00**
1	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
			1	19.70	0.90	0.15	2.66		
			4	1.20	1.50	0.15	1.08		
			2	6.70	0.60	0.15	1.21		
	Basic Rate	4867.00					**4.95**	5256.36	**25995.00**
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							
2	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2016-17**	Cum							
	For compound wall coping		2	65.00	0.20	0.10	2.60		
			2	20.00	0.20	0.10	0.80		
	drain repair		1	50.00	0.75	0.15	5.63		
	Basic Rate	5441.00					**9.03**	5876.28	**53033.00**
	Area Weightage @ 8%	435.28							
	Total	**5876.28**							
3	KSRB 5-14.1 : Providing and constructing load bearing wall with **solid concrete blocks of size 400x200x200 mm** having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.1, PWD SR 2016-17**	Sqm							
			1	19.70		1.00	19.70		
			1	20.00		1.00	20.00		
			1	25.00		1.00	25.00		
							64.70		
			4	0.75		2.10	6.30		
			1	19.70		0.15	2.96		

(1)

Compound

Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			4	0.60		0.45	1.08		
							-10.34		
	Basic Rate	937.00					**54.37**	1011.96	**55015.00**
	Area Weightage @ 8%	74.96							
	Total	**1011.96**							
4	KSRB 10-3 : Providing and laying **integral cement based waterproofing treatment** including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm	Sqm							
			1	7.00	6.00		42.00		
	Basic Rate	904.00					**42.00**	976.32	**41005.00**
	Area Weightage @ 8%	72.32							
	Total	**976.32**							
5	KSRB15-3-13 : Providing **12mm thick cement plaster in single coat with cement mortar 1:3**, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114, Item No. 15.21 of PWD SR 2016-17**	Sqm							
			2	1.20	1.50		3.60		
			1	7.40	3.36		24.86		
			1	15.50	2.00		31.00		
	Basic Rate	193.00					**59.46**	235.44	**14000.00**
	Add for Lime Rendering	25.00							
		218.00							
	Area Weightage @ 8%	17.44							
	Total	**235.44**							
6	KSRB15-3.8 : Providing **18mm thick cement plaster in single coat with cement mortar 1:4,** to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.16, PWD SR 2016-17**	Sqm							
			2	1.50		2.40	7.20		

Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			3	1.20		2.40	8.64		
			2	7.40		0.90	13.32		
			4	3.60		0.90	12.96		
							42.12		
			0.5x2	0.75		2.10	1.58		
			0.5x2	0.60		0.45	0.27		
							-1.85		
	Basic Rate	221.00					**40.28**	238.68	**9613.00**
	Area Weightage @ 8%	17.68							
	Total	**238.68**							
7	KSRB15-3.9 :Providing **18mm thick cement plaster in single coat with cement mortar 1:6,** to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.17, PWD SR 2016-17**	Sqm							
			2	2.80		2.40	13.44		
			2	1.90		2.40	9.12		
							22.56		
	Deduction for Doors		0.5x2	0.75		2.10	1.58		
	Ventilators		0.5x2	0.60		0.45	0.27		
							-1.85		
	Basic Rate	198.00					**20.72**	213.84	**4430.00**
	Area Weightage @ 8%	15.84							
	Total	**213.84**							
8	KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 **steel glazed windows and ventilators** side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinerycomplete as mixed with proprietary water proofing compound and finally finishing the **surface with trowel and neat cement**	Sqm							
			1	0.60		0.45	0.27		
			2	0.90		1.20	2.16		
	Basic Rate	3530.00					**2.43**	3741.80	**9093.00**
	Area Weightage @ 6%	211.80							
	Total	**3741.80**							

Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
9	KSRB 15-14.1 : Providing and **applying two coats with oil bound washable distemper** of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. **Page No. 117 / Item No. 15.49.1, PWD SR 2016-17**	Sqm							
			Qty Vide Item No.12+13				99.74		
	Ceiling								
			3	6.00		4.80	86.40		
			3	7.40		3.60	79.92		
	verandah								
			1	19.00		1.30	24.70		
			1	6.50		1.20	7.80		
	for walls								
			2x1	5.00		2.10	21.00		
	front wall								
			1	19.00		3.00	57.00		
			1	23.20		3.00	69.60		
			1	9.10		3.00	27.30		
							473.46		
	Deductions								
			1	0.90		2.10	1.89		
			1	1.20		2.30	2.76		
	Windows		2	0.90		1.20	2.16		
							-6.81		
	Basic Rate	71.00					**466.65**	76.68	**35783.00**
	Area Weightage @ 8%	5.68							
	Total	**76.68**							
10	KSRB 15-16.1 : Providing and finishing **external walls in two coats with waterproof cement paint** of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. **Page No. 117 / Item No. 15.53.2, SR 2016-17.**	Sqm							
			Qty Vide Item No.14				20.72		
			1	19.00		3.70	70.30		
			2	5.30		3.70	39.22		
	Basic Rate	84.00					**130.24**	90.72	**11815.00**
	Area Weightage @ 8%	6.72							
	Total	**90.72**							
11	KSRB 14.7-2 : Providing and laying **red oxide flooring 40 mm thick, with an under layer of 30mm thick M-15 cement concrete**, using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with 1:3 cement mortar mixed with red oxide (using 3.5 kg of red oxide per 50 kg of cement) finished with floating coat of neat cement mixed with red oxide (mix of same proportion) , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.3 **Page No. 102, Item No. 14.9, PWD SR 2016-17**	Sqm							
			1	2.50	1.30		3.25		

Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			2	7.50	3.50		52.50		
			1	1.90	7.80		14.82		
	Basic Rate	578.00					**70.57**	624.24	**44053.00**
	Area Weightage @ 8%	46.24							
	Total	**624.24**							
12	KSRB 15-17.6 : **Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface** with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. **(P.No. 118, I.No. 15.60.1 of SR 2016-17).**	Sqm							
			1	0.90	2.10	2.25	4.25		
			2	1.20	2.10	2.25	11.34		
			2	0.75	2.10	2.25	7.09		
			3x2	3.50		0.90	18.90		
			3x2	4.80		0.90	25.92		
			1	23.20		0.45	10.44		
			1	9.10		0.45	4.10		
			2	6.30		0.90	11.34		
			2	3.00		0.90	5.40		
			2	5.00		0.90	9.00		
	Basic Rate	84.00					**107.78**	90.72	**9777.00**
	Area Weightage @ 8%	6.72							
	Total	**90.72**							
13	KSRB 14.14-5: **Providing Ceramic tiles of approved make,shade and size for flooring**, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic **Tiles of size 30x30cms 6mm thick. Page No.106, Item No. 14.36.2, PWD SR 2016-17**	Sqm							
	Flooring		2	1.20	1.50		3.60		
	Basic Rate	1176.00					**3.60**	1270.08	**4572.00**
	Area Weightage @ 8%	94.08							
	Total	**1270.08**							
14	KSRB 14-17.2 : **Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3** and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of **size 30 x 10 cms. Page No.106, Item No. 14.41.2 PWD SR 2016-17**	Sqm							
			2	1.20	2.10		5.04		
			2	1.50	2.10		6.30		
	Deduction of Doors		2	0.75	2.10		-3.15		
	Ventilator		2	0.60	0.45		-0.54		
	Basic Rate	1484.00					**7.65**	1602.72	**12261.00**
	Area Weightage @ 8%	118.72							
	Total	**1602.72**							

Sl.No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
15	KSRB 11-1 : Providing and fixing white vitreous china clay, water closet **Indian type** (Squatting pan) of size 580mm with footrests, 100mm S or P trap, 10 litre low level, P.V.C **flushing cistern** (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 77 / Item No. 12.1 / PWD SR 2016-17**	pan							
			2				**2**	3730.32	**7461.00**
	Basic Rate	3454.00							
	Area Weightage @ 8%	276.32							
	Total	**3730.32**							
16	KSRB 11-11.1 : **Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm** with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 80, Item No. 12.23, PWD SR 2016-17**	Unit							
			2				**2**	4196.88	**8394.00**
	Basic Rate	3886.00							
	Area Weightage @ 8%	310.88							
	Total	**4196.88**							
17	KSRB13-1.4: **Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 32mm** dia nominal bore with fittings (medium grade weight 1.65 kg/mtr) B class including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.8 **Page No. 90, Item No. 13.4, PWD SR 2016-17**	m							
			1	20.00			**20.00**	378.00	**7560.00**
	Basic Rate	350.00							
	Area Weightage @ 8%	28.00							
	Total	**378.00**							
18	Supplying water **storage tanks made of virgin polymer (LLDPE)** with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications. (P.No. 265 / I.No. 37.58 of CSR 2016-17)	L							
			1	500.00			**500**	6.48	**3240.00**
	Basic Rate	6.00							
	Area Weightage @ 8%	0.48							
	Total	**6.48**							

N	Description	Unit	No.	L	B	D	Qty	Rate	Amount
19	KSRB13-6.2-2 : Providing and fixing in **position brass stop cock of approved quality 20mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 **Page No. 91, Item No. 13.27, PWD SR 2016-17**	Each							
			5				**5**	172.80	**864.00**
	Basic Rate	160.00							
	Area Weightage @ 8%	12.80							
	Total	**172.80**							
20	KSRB 12-1.2 : Providing and laying in **position to required level or slope 150mm internal diameter salt glazed stoneware pipes** grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5 / 12.7 **Page No. 70 / Item No. 11.2 / PWD SR 2016-17**	m							
	All Round Wall		1	25.00			**25.00**	381.24	**9531.00**
	Basic Rate	353.00							
	Area Weightage @ 8%	28.24							
	Total	**381.24**							
21	Cement concrete pavement.Construction of **un-reinforced plain cement concrete pavement**, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20**	Cum							
	Singapura school		1	16.00	1.40	0.10	2.24		
	Kuvempunagar school		1	11.00	9.50	0.10	10.45		
	Basic Rate	5197.00					**12.69**	5508.82	**69907.00**
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
Singapura school		1	16.00	1.40		22.40		
Kuvempunagar school		1	11.00	9.50		104.50		
Basic Rate	90.00					**126.90**	95.40	**12106.00**
Area Weightage @ 6%	5.40							
Total	**95.40**							
Sub Total								**449508.00**
KRIDL Charges @ 10%								**44951.00**
Labour Cess @ 1%								**4495.00**
Miscellaneous and other Charges	L/S							**1046.00**
							Total	**500000.00**

Rupees Five Lakh(s) Only

ERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2017-18 14th Finance Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Five lakhs only
Head of A/c P-3292
Div. Ref. No. 26/18-19 Date. 6/08/18
AE 6/08
EE(BTP) 6/08

TECHNICAL SANCTION
Accorded For Rs. Five lakhs only
Head of A/c P-3292
Div. Ref. No. 36/18-19 Date. 6/08/18
AE 6/08
EE(BTP) 6/08